

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09160766 A**(43) Date of publication of application: **20.06.97**

(51) Int. Cl.

**G06F 9/06**  
**F02D 45/00**  
**G05B 19/05**  
**G06F 9/445**

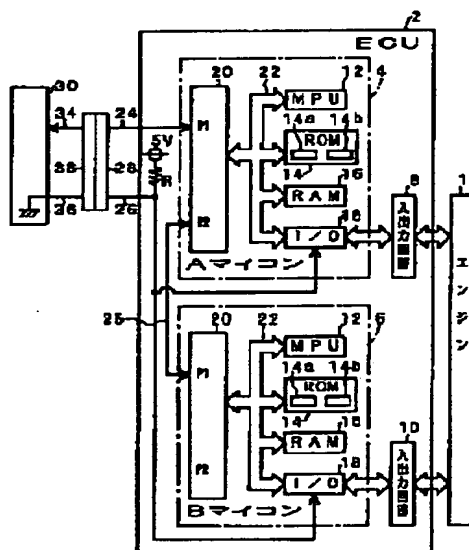
(21) Application number: **07315388**(71) Applicant: **DENSO CORP**(22) Date of filing: **04.12.95**(72) Inventor: **KOBAYASHI MASAYUKI**(54) **ELECTRONIC CONTROLLER**

COPYRIGHT: (C)1997,JPO

(57) Abstract

**PROBLEM TO BE SOLVED:** To provide an electronic controller which contains plural microcomputers and can easily and surely rewrite the control program and the control data included in each microcomputer.

**SOLUTION:** In an ECU(electronic control unit) 2 which contains two microcomputers 4 and 6 having the rewritable ROMs 14, a communication port P1 of the microcomputer 4 is connected to a memory rewrite device 30 via an external communication line 24. At the same time, a communication port P2 of the microcomputer 4 is connected to a communication port P1 of the microcomputer 6 via an internal communication line 25. Each of both microcomputers 4 and 6 stores the value obtained by adding 1 to the identification number received from the port P1 as its own identification number and also sends the identification number added with 1 to the next microcomputer via the port P2 before the contents of the ROM 14 are rewritten. As a result, it is not required to previously store the identification numbers in the unrewritable memory areas of both microcomputers 4 and 6.



BEST AVAILABLE COPY